

# PATENT ABSTRACTS OF JAPAN

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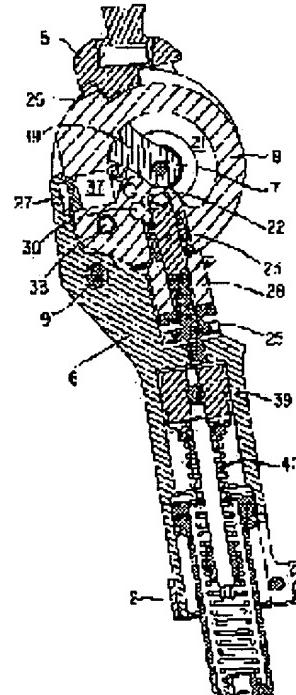
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## (54) BRAKE-ACTION KNEE JOINT

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a structure for a brake-action knee joint having a brake means which maintains the natural step distance and is controlled by the load applied by the foot.

**SOLUTION:** This brake-action knee joint for a leg prosthesis comprising an upper part 5 of the joint, a lower part 6 of the joint, a joint pin 7 combined with the joint parts, a pivotal lever forming an intermediate portion 8, of which the end at the extension side is mounted on a rocker pin 9 parallel to the joint pin 7 and the end at the flexion side surrounds the joint pin 7, and a braking means controlled by the load applied by the foot, has a closed displacement chamber filled with pressure liquid. The closed displacement chamber is divided into an extension chamber 20 and a flexion chamber 21 by the joint pin 7 which forms the rotary piston 19 and is combined with the upper part 5 of the joint. A pressure liquid 22 communicating the two chambers can be closed by a valve plunger 23 which pushes the pressure liquid duct to the closed position when the lower part of the joint pivots in the



direction of flexion.

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